

SEQUENCE\_LISTING\_\_file\_di\_testo  
SEQUENCE LISTING

<110> UNIVERSITA' DEGLI STUDI DI BOLOGNA et al.

<120> METHOD FOR SELECTIVE INHIBITION OF HUMAN N-myc GENE IN N-myc  
EXPRESSING TUMORS THROUGH ANTISENSE AND ANTIGEN PEPTIDO-NUCLEIC ACIDS  
(PNA)

<130> U216412W09

<140> PCT/IB2004/001297

<141> 2004-04-29

<150> IT MI2003A000860<151> 2003-04-29

<160> 16

<170> PatentIn version 3.1

<210> 1

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense PNA that is complementary to only one sequence in 5'-UT  
R region of N-myc gene (support at page 6, lines 17-20)

<400> 1  
tccaccgcgc gcgtcc 16

<210> 2

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> mutated PNA containing the substitution of three bases (support a  
t page 6, lines 23-25)

<400> 2  
cccactcgcgc gcgccc 16

<210> 3

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> sense antigen PNA sequence which is complementary to a sequence o  
f exon 2 N-myc gene (support at page 8, lines 14-19)

<400> 3  
atgccggggca tgatct 16

<210> 4

<211> 16

<212> DNA

<213> Artificial Sequence

# SEQUENCE\_LISTING\_\_file\_di\_testo

<220>  
 <223> antisense antigen PNA sequence which is complementary to a sequence of exon 2 N-myc gene (support at page 8, lines 14-19)

<400> 4  
 agatcatgcc cggcat 16

<210> 5  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> sense primer (exone 2, bp 2366) (support at page 14, lines 21-22)

<400> 5  
 cgaccacaag gccctcagt 19

<210> 6  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> antisense primer (exone 2, bp 5095) (support at page 14, lines 22-23)

<400> 6  
 tgaccacgtc gatttcttcc t 21

<210> 7  
 <211> 16  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> mutated PNA sequence containing the substitution of three bases (support at page 15, lines 29-31)

<400> 7  
 gtgccgagca tggctt 16

<210> 8  
 <211> 7  
 <212> PRT  
 <213> SV40 virus

<220>  
 <221> misc\_feature  
 <223> NLS carrier protein (support at page 7, lines 5-6)

<400> 8  
 Pro Lys Lys Lys Arg Lys Val  
 1 5

<210> 9  
 <211> 16

# SEQUENCE\_LISTING\_\_file\_di\_testo

<212> PRT  
<213> antennapedia

<220>  
<221> misc\_feature  
<223> penetratin carrier protein (support at page 7, lines 7-8)

<400> 9

Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys  
1 5 10 15

<210> 10  
<211> 24  
<212> PRT  
<213> Unknown

<220>  
<223> transportan carrier protein (support at page 7, lines 9-10)

<400> 10

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Lys Ile Asn Leu  
1 5 10 15

Ala Ala Leu Ala Lys Lys Ile Leu  
20

<210> 11  
<211> 16  
<212> PRT  
<213> Unknown

<220>  
<223> retro-inverso penetratin carrier protein (D)-sequence (support at page 7, lines 11-12)

<400> 11

Lys Lys Trp Lys Met Arg Arg Asn Gln Phe Trp Val Lys Val Gln Arg  
1 5 10 15

<210> 12  
<211> 13  
<212> PRT  
<213> HIV virus

<220>  
<221> misc\_feature  
<223> TAT carrier protein (support at page 7, lines 13-14)

<400> 12

Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln  
1 5 10

<210> 13  
<211> 11

# SEQUENCE\_LISTING\_\_file\_di\_testo

<212> PRT  
<213> HIV virus

<220>  
<221> misc\_feature  
<223> TAT carrier protein (support at page 7, lines 15-16)

<400> 13

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg  
1 5 10

<210> 14  
<211> 29  
<212> PRT  
<213> Unknown

<220>  
<223> carrier peptide sequence (support at page 7, lines 17-20)

<400> 14

Met Ser Val Leu Thr Pro Leu Leu Leu Arg Gly Leu Thr Gly Ser Ala  
1 5 10 15

Arg Arg Leu Pro Val Pro Arg Ala Lys Ile His Ser Leu  
20 25

<210> 15  
<211> 10  
<212> PRT  
<213> Unknown

<220>  
<223> carrier peptide sequence (support at page 7, lines 17-19, 21)

<400> 15

Lys Phe Phe Lys Phe Phe Lys Phe Phe Lys  
1 5 10

<210> 16  
<211> 4  
<212> PRT  
<213> Unknown

<220>  
<223> carrier peptide sequence (support at page 7, lines 17-19, 22)

<400> 16

Lys Lys Lys Lys  
1